

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, in the application:

What is claimed is:

1        1. (currently amended) A ~~cementitious material~~ ~~manufacturable process~~, said  
2        method for inhibiting the corrosion of metals embedded in a cementitious material, said  
3        cementitious material manufacturable from a process comprising the activities of:  
4            providing cementitious material;  
5            manufacturing lithium nitrate; and  
6            providing said lithium nitrate for addition to said cementitious material at an  
7            effective dosage rate for inhibiting the corrosion of metals embedded in the  
8            cementitious material.

1        2. (original) The method of claim 1, wherein said effective dosage rate is  
2        between about 0.01 gram moles of lithium nitrate per cubic foot of cementitious  
3        material and about 100 gram moles of lithium nitrate per cubic foot of cementitious  
4        material.

1        3. (original) The method of claim 1, wherein said effective dosage rate is  
2        between about 0.01 gram moles of lithium nitrate per cubic foot of cementitious  
3        material and about 0.1 gram moles of lithium nitrate per cubic foot of cementitious  
4        material.

1        4. (original) The method of claim 1, wherein said effective dosage rate is  
2        between about 0.1 gram moles of lithium nitrate per cubic foot of cementitious material  
3        and about 1 gram moles of lithium nitrate per cubic foot of cementitious material.

1       5. (original) The method of claim 1, wherein said effective dosage rate is  
2   between about 1 gram moles of lithium nitrate per cubic foot of cementitious material  
3   and about 10 gram moles of lithium nitrate per cubic foot of cementitious material.

1       6. (original) The method of claim 1, wherein said effective dosage rate is  
2   between about 10 gram moles of lithium nitrate per cubic foot of cementitious material  
3   and about 100 gram moles of lithium nitrate per cubic foot of cementitious material.

1       7. (original) The method of claim 1, wherein said effective dosage rate is  
2   about 0.815 gram moles of lithium nitrate per cubic foot of cementitious material.

1       8. (original) The method of claim 1, wherein said lithium nitrate is provided as  
2   a solid.

1       9. (original) The method of claim 1, wherein said lithium nitrate is provided in  
2   an aqueous solution.

1       10. (original) The method of claim 1, wherein said cementitious material is  
2   concrete.

1       11. (original) The method of claim 1, wherein said cementitious material is  
2   grout.

1       12.     The method of claim 1, wherein said cementitious material is mortar.

1       13. (original) The method of claim 1, wherein said cementitious material is  
2   pozzalanic cement.

1       14. (original) The method of claim 1, wherein said cementitious material is at  
2 least one of cement, grout, mortar, and pozzalanic cement, or any combination thereof.

1       15. (currently amended) A ~~concrete or cementitious material manufacturable~~  
2 ~~process, said method for inhibiting the corrosion of metals embedded in concrete or any~~  
3 ~~other cementitious material, said concrete or cementitious material manufacturable~~  
4 ~~from a process comprising the activities of:~~

5       ~~providing concrete or any other cementitious material;~~  
6       obtaining lithium nitrate; and  
7       mixing said lithium nitrate with said concrete or cementitious material at an  
8 ~~effective dosage rate for inhibiting the corrosion of metals embedded in the concrete or~~  
9 ~~any other of the cementitious material.~~

1       16. (original) The method of claim 15, wherein said effective dosage rate is  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of concrete or  
3 cementitious material and about 100 gram moles of lithium nitrate per cubic foot of  
4 concrete or cementitious material.

1       17. (original) The method of claim 15, wherein said effective dosage rate is  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of concrete or  
3 cementitious material and about 0.1 gram moles of lithium nitrate per cubic foot of  
4 concrete or cementitious material.

1       18. (original) The method of claim 15, wherein said effective dosage rate is  
2 between about 0.1 gram moles of lithium nitrate per cubic foot of concrete or  
3 cementitious material and about 1 gram moles of lithium nitrate per cubic foot of  
4 concrete or cementitious material.

1        19. (original) The method of claim 15, wherein said effective dosage rate is  
2    between about 1 gram moles of lithium nitrate per cubic foot of concrete or  
3    cementitious material and about 10 gram moles of lithium nitrate per cubic foot of  
4    concrete or cementitious material.

1        20. (original) The method of claim 15, wherein said effective dosage rate is  
2    between about 10 gram moles of lithium nitrate per cubic foot of concrete or  
3    cementitious material and about 100 gram moles of lithium nitrate per cubic foot of  
4    concrete or cementitious material.

1        21. (original) The method of claim 15, wherein said effective dosage rate is  
2    about 0.815 gram moles of lithium nitrate per cubic foot of concrete or cementitious  
3    material.

1        22. (currently amended) A ~~grout-manufacturable process~~method for inhibiting  
2    the corrosion of metals embedded in grout, said ~~grout~~ manufactureable from a process  
3    comprising the activities of:

4        providing grout material;  
5        obtaining lithium nitrate; and  
6        mixing said lithium nitrate with said grout at an effective dosage rate ~~for~~  
7    ~~inhibiting the corrosion of metals embedded in the grout.~~

1        23. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 80  
3    gram moles of lithium nitrate per cubic foot of grout.

1        24. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 82  
3    gram moles of lithium nitrate per cubic foot of grout.

1        25. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 100  
3    gram moles of lithium nitrate per cubic foot of grout.

1        26. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 0.1  
3    gram moles of lithium nitrate per cubic foot of grout.

1        27. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 0.1 gram moles of lithium nitrate per cubic foot of grout and about 1  
3    gram moles of lithium nitrate per cubic foot of grout.

1        28. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 1 gram moles of lithium nitrate per cubic foot of grout and about 10  
3    gram moles of lithium nitrate per cubic foot of grout.

1        29. (original) The method of claim 22, wherein said effective dosage rate is  
2    between about 10 gram moles of lithium nitrate per cubic foot of grout and about 100  
3    gram moles of lithium nitrate per cubic foot of grout.

1        30. (original) The method of claim 22, wherein said effective dosage rate is  
2    about 0.815 gram moles of lithium nitrate per cubic foot of grout.

1        31. (currently amended) A ~~mortar-manufacturable process, method for~~  
2    inhibiting the corrosion of metals embedded in mortar, said mortar manufacturable  
3    from a said process comprising the activities of:  
4        providing mortar material;  
5        obtaining lithium nitrate; and

6       mixing said lithium nitrate with said mortar at an effective dosage rate ~~for~~  
7       ~~inhibiting the corrosion of metals embedded in the mortar.~~

1       32. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about 80  
3       gram moles of lithium nitrate per cubic foot of mortar.

1       33. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about 82  
3       gram moles of lithium nitrate per cubic foot of mortar.

1       34. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about  
3       100 gram moles of lithium nitrate per cubic foot of mortar.

1       35. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about  
3       0.1 gram moles of lithium nitrate per cubic foot of mortar.

1       36. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 0.1 gram moles of lithium nitrate per cubic foot of mortar and about 1  
3       gram moles of lithium nitrate per cubic foot of mortar.

1       37. (original) The method of claim 31, wherein said effective dosage rate is  
2       between about 1 gram moles of lithium nitrate per cubic foot of mortar and about 10  
3       gram moles of lithium nitrate per cubic foot of mortar.

1       38. (original) The method of claim 31, wherein said effective dosage rate is

2      between about 10 gram moles of lithium nitrate per cubic foot of mortar and about 100  
3      gram moles of lithium nitrate per cubic foot of mortar.

1            39. (original) The method of claim 31, wherein said effective dosage rate is  
2      about 0.815 gram moles of lithium nitrate per cubic foot of mortar.

1            40. (currently amended) ~~A cementitious material manufacturable process, method for inhibiting the corrosion of metals embedded in cementitious material, said cementitious material manufacturable from a said process comprising the activities of: providing cementitious material; obtaining lithium nitrate; and applying said lithium nitrate to the surface of said cementitious material at an effective dosage rate for inhibiting the corrosion of metals embedded in the cementitious material.~~

1            41. (original) The method of claim 40, wherein said effective dosage rate is  
2      between about 0.01 gram moles of lithium nitrate per cubic foot of cementitious  
3      material and about 100 gram moles of lithium nitrate per cubic foot of cementitious  
4      material.

1            42. (original) The method of claim 40, wherein said effective dosage rate is  
2      between about 0.01 gram moles of lithium nitrate per cubic foot of cementitious  
3      material and about 0.10 gram moles of lithium nitrate per cubic foot of cementitious  
4      material.

1            43. (original) The method of claim 40, wherein said effective dosage rate is  
2      between about 0.1 gram moles of lithium nitrate per cubic foot of cementitious material  
3      and about 1 gram moles of lithium nitrate per cubic foot of cementitious material.

1       44. (original) The method of claim 40, wherein said effective dosage rate is  
2    between about 1 gram moles of lithium nitrate per cubic foot of cementitious material  
3    and about 10 gram moles of lithium nitrate per cubic foot of cementitious material.

1       45. (original) The method of claim 40, wherein said effective dosage rate is  
2    between about 10 gram moles of lithium nitrate per cubic foot of cementitious material  
3    and about 100 gram moles of lithium nitrate per cubic foot of cementitious material.

1       46. (original) The method of claim 40, wherein said effective dosage rate is  
2    about 0.815 gram moles of lithium nitrate per cubic foot of cementitious material.

1       47. (currently amended) A cementitious material manufacturable process,  
2    method for inhibiting the corrosion of metals in embedded in cementitious material,  
3    said cementitious material manufacturable from a previously heated Portland cement  
4    composition, said Portland cement manufacturable from a said process comprising the  
5    activities of:

6       providing cementitious material, said cementitious material manufacturable  
7    from a previously heated Portland cement composition;  
8       obtaining lithium nitrate; and  
9       admixing said lithium nitrate with said Portland cement composition at an  
10    effective dosage rate for inhibiting the corrosion of metals in embedded in the  
11    cementitious material.

1       48. (original) The method of claim 47, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of cement and about  
3    100 gram moles of lithium nitrate per cubic foot of cement.

1       49. (original) The method of claim 47, wherein said effective dosage rate is  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of cement and about

3 0.1 gram moles of lithium nitrate per cubic foot of cement.

1       50. (original) The method of claim 47, wherein said effective dosage rate is  
2 between about 0.1 gram moles of lithium nitrate per cubic foot of cement and about 1  
3 gram moles of lithium nitrate per cubic foot of cement.

1       51. (original) The method of claim 47, wherein said effective dosage rate is  
2 between about 1 gram moles of lithium nitrate per cubic foot of cement and about 10  
3 gram moles of lithium nitrate per cubic foot of cement.

1       52. (original) The method of claim 47, wherein said effective dosage rate is  
2 between about 10 gram moles of lithium nitrate per cubic foot of cement and about 100  
3 gram moles of lithium nitrate per cubic foot of cement.

1       53. (original) The method of claim 47, wherein said effective dosage rate is  
2 about 0.815 gram moles of lithium nitrate per cubic foot of cement.

1       54. (currently amended) A cementitious material manufacturable process,  
2 method for inhibiting the corrosion of metals embedded in cementitious material, said  
3 cementitious material comprising a Portland cement composition, said Portland cement  
4 composition creatable from a method process comprising the activities of:

5       providing cementitious material, said cementitious material comprising a  
6 Portland cement composition;

7       obtaining lithium nitrate;

8       admixing said lithium nitrate with said Portland cement in an amount sufficient  
9 to inhibit the corrosion of metals; and

10      heating said material to form a Portland cement clinker for inhibiting the  
11 corrosion of metals embedded in cementitious material.

1        55. (original) The method of claim 54, wherein said sufficient amount  
2 provides a molar ratio of lithium to sodium equivalent in the resultant cement clinker  
3 of between about 0.01:1 to about 10:1.

1        56. (original) The method of claim 54, wherein said sufficient amount  
2 provides a molar ratio of lithium to sodium equivalent in the resultant cement clinker  
3 of between about 0.01:1 to about 0.1:1.

1        57. (original) The method of claim 54, wherein said sufficient amount  
2 provides a molar ratio of lithium to sodium equivalent in the resultant cement clinker  
3 of between about 0.1:1 to about 1:1.

1        58. (original) The method of claim 54, wherein said sufficient amount  
2 provides a molar ratio of lithium to sodium equivalent in the resultant cement clinker  
3 of between about 1:1 to about 5:1.

1        59. (original) The method of claim 54, wherein said sufficient amount  
2 provides a molar ratio of lithium to sodium equivalent in the resultant cement clinker  
3 of between about 5:1 to about 10:1.

1        60. (cancelled) A composition comprising:  
2            a concrete or cementitious material comprising between about 0.01 gram moles  
3            of lithium nitrate per cubic foot of concrete to about 100 gram moles of lithium nitrate  
4            per cubic foot of concrete or cementitious material.

1        61. (cancelled) The composition of claim 60, wherein said concrete or  
2            cementitious material comprises between about 0.01 gram moles of lithium nitrate per  
3            cubic foot of concrete to about 0.1 gram moles of lithium nitrate per cubic foot of  
4            concrete or cementitious material.

1       62. (cancelled) The composition of claim 60, wherein said concrete or  
2 cementitious material comprises between about 0.1 gram moles of lithium nitrate per  
3 cubic foot of concrete to about 1 gram moles of lithium nitrate per cubic foot of  
4 concrete.

1       63. (cancelled) The composition of claim 60, wherein said concrete or  
2 cementitious material comprises between about 1 gram moles of lithium nitrate per  
3 cubic foot of concrete to about 10 gram moles of lithium nitrate per cubic foot of  
4 concrete or cementitious material.

1       64. (cancelled) The composition of claim 60, wherein said concrete or  
2 cementitious material comprises between about 10 gram moles of lithium nitrate per  
3 cubic foot of concrete to about 100 gram moles of lithium nitrate per cubic foot of  
4 concrete or cementitious material.

1       65. (cancelled) The composition of claim 60, wherein said concrete or  
2 cementitious material comprises about 0.815 gram moles of lithium nitrate per cubic  
3 foot of grout or cementitious material.

1       66. (cancelled) A composition comprising:  
2            a grout comprising between about 0.01 gram moles of lithium nitrate per cubic  
3 foot of grout to about 100 gram moles of lithium nitrate per cubic foot of grout.

1       67. (cancelled) The composition of claim 66, wherein said grout comprises  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 80  
3 gram moles of lithium nitrate per cubic foot of grout.

1       68. (cancelled) The composition of claim 66, wherein said grout comprises  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 82

3 gram moles of lithium nitrate per cubic foot of grout.

1 69. (cancelled) The composition of claim 66, wherein grout comprises  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of grout and about 0.1  
3 gram moles of lithium nitrate per cubic foot of grout.

1 70. (cancelled) The composition of claim 66, wherein said grout between  
2 about 0.1 gram moles of lithium nitrate per cubic foot of grout and about 1 gram moles  
3 of lithium nitrate per cubic foot of grout.

1 71. (cancelled) The composition of claim 66, wherein said grout comprises  
2 between about 1 gram moles of lithium nitrate per cubic foot of grout and about 10  
3 gram moles of lithium nitrate per cubic foot of grout.

1 72. (cancelled) The composition of claim 66, wherein said grout comprises  
2 between about 10 gram moles of lithium nitrate per cubic foot of grout and about 100  
3 gram moles of lithium nitrate per cubic foot of grout.

1 73. (cancelled) The composition of claim 66, wherein said grout comprises  
2 about 0.815 gram moles of lithium nitrate per cubic foot of grout.

1 74. (cancelled) A composition comprising:  
2 a mortar comprising between about 0.01 gram moles of lithium nitrate per cubic  
3 foot of mortar to about 100 gram moles of lithium nitrate per cubic foot of mortar.

1 75. (cancelled) The composition of claim 74, wherein said mortar comprises  
2 between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about 80  
3 gram moles of lithium nitrate per cubic foot of mortar.

1        76. (cancelled) The composition of claim 74, wherein said mortar comprises  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about 82  
3    gram moles of lithium nitrate per cubic foot of mortar.

1        77. (cancelled) The composition of claim 74, wherein mortar comprises  
2    between about 0.01 gram moles of lithium nitrate per cubic foot of mortar and about  
3    0.1 gram moles of lithium nitrate per cubic foot of mortar.

1        78. (cancelled) The composition of claim 74, wherein said mortar between  
2    about 0.1 gram moles of lithium nitrate per cubic foot of mortar and about 1 gram  
3    moles of lithium nitrate per cubic foot of mortar.

1        79. (cancelled) The composition of claim 74, wherein said mortar comprises  
2    between about 1 gram moles of lithium nitrate per cubic foot of mortar and about 10  
3    gram moles of lithium nitrate per cubic foot of mortar.

1        80. (cancelled) The composition of claim 74, wherein said mortar comprises  
2    between about 10 gram moles of lithium nitrate per cubic foot of mortar and about 100  
3    gram moles of lithium nitrate per cubic foot of mortar.

1        81. (cancelled) The composition of claim 74, wherein said mortar comprises  
2    about 0.815 gram moles of lithium nitrate per cubic foot of mortar.

1        82. (cancelled) A composition comprising:  
2            a cementitious material comprising an effective amount lithium nitrate per  
3    cubic foot of cementitious material for inhibiting the corrosion of metals embedded in  
4    cementitious material.